



National Defense Industrial Association 18th Annual Security Division Symposium

*Securing Our Economic,
Military and Technological Future:
The Government – Industry Partnership*

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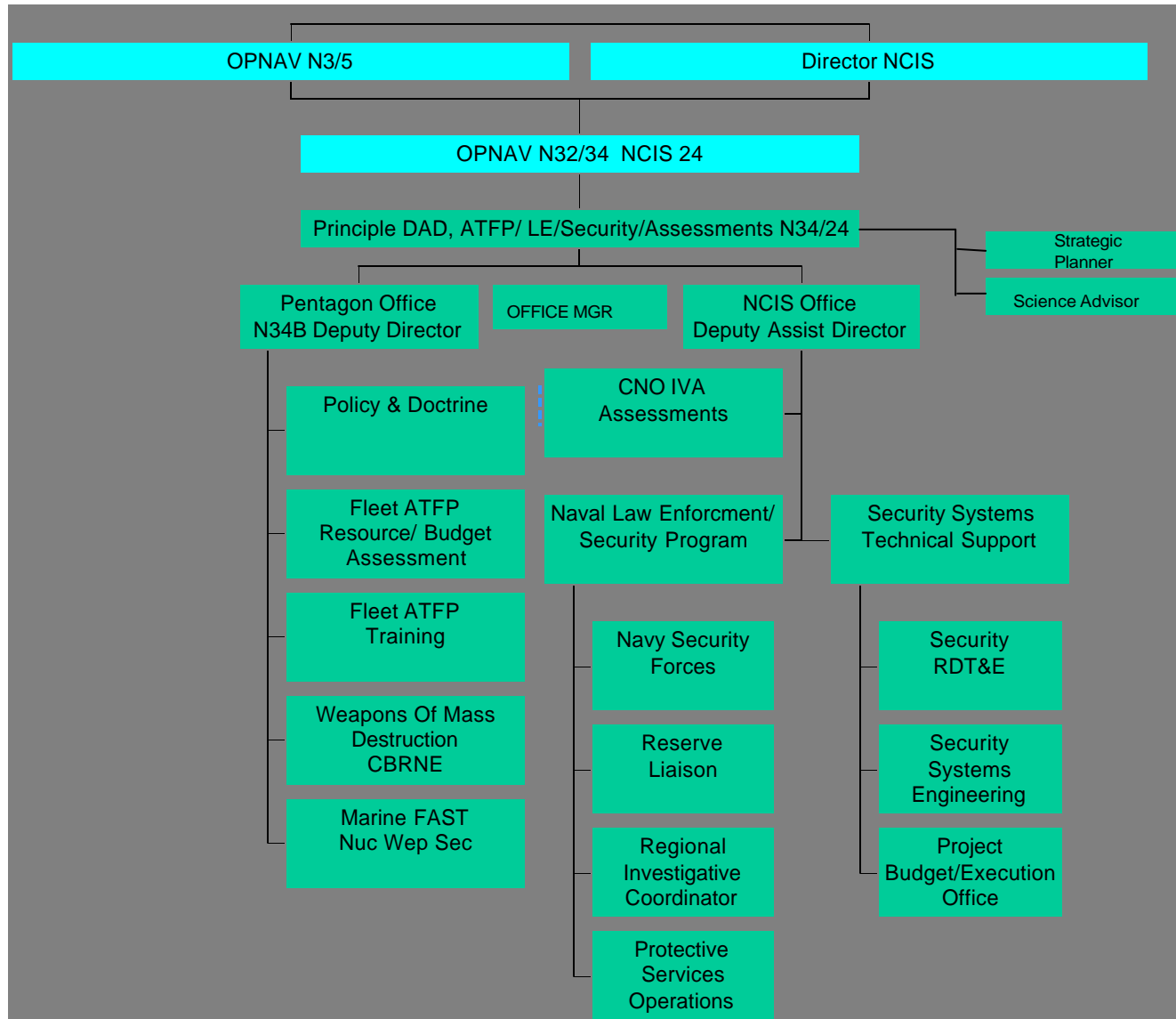
OUTLINE

- **Organization**
- **Charter**
- **Fully Integrated Security System Vision**
- **Waterside Security System**
- **Explosive Detection Baseline Architecture**
- **Knowledge Management Portal**
- **Naval Air Station North Island Security-In-Depth Concept**
- **Challenge to Industry**



ORGANIZATION

CNO(N09N/N34)/NCIS Organizational Chart





CHARTER



DoD Directive 3224.3

**SUBJECT: Physical Security Equipment (PSE):
Assignment of Responsibility for Research,
Development, Testing,...**

“..... the Navy shall perform...design and performance criteria for all research and engineering of **shipboard and waterside physical security systems, anti-compromise emergency destruct systems, explosive detection systems, and ...**

Develop, test, and procure in coordination with the other Military Services **locking devices, security containers, and related delay systems.”**



OPNAVINST 5430.48D



SUBJECT: Office of the Chief of Naval Operations (OPNAV) Organizational Manual

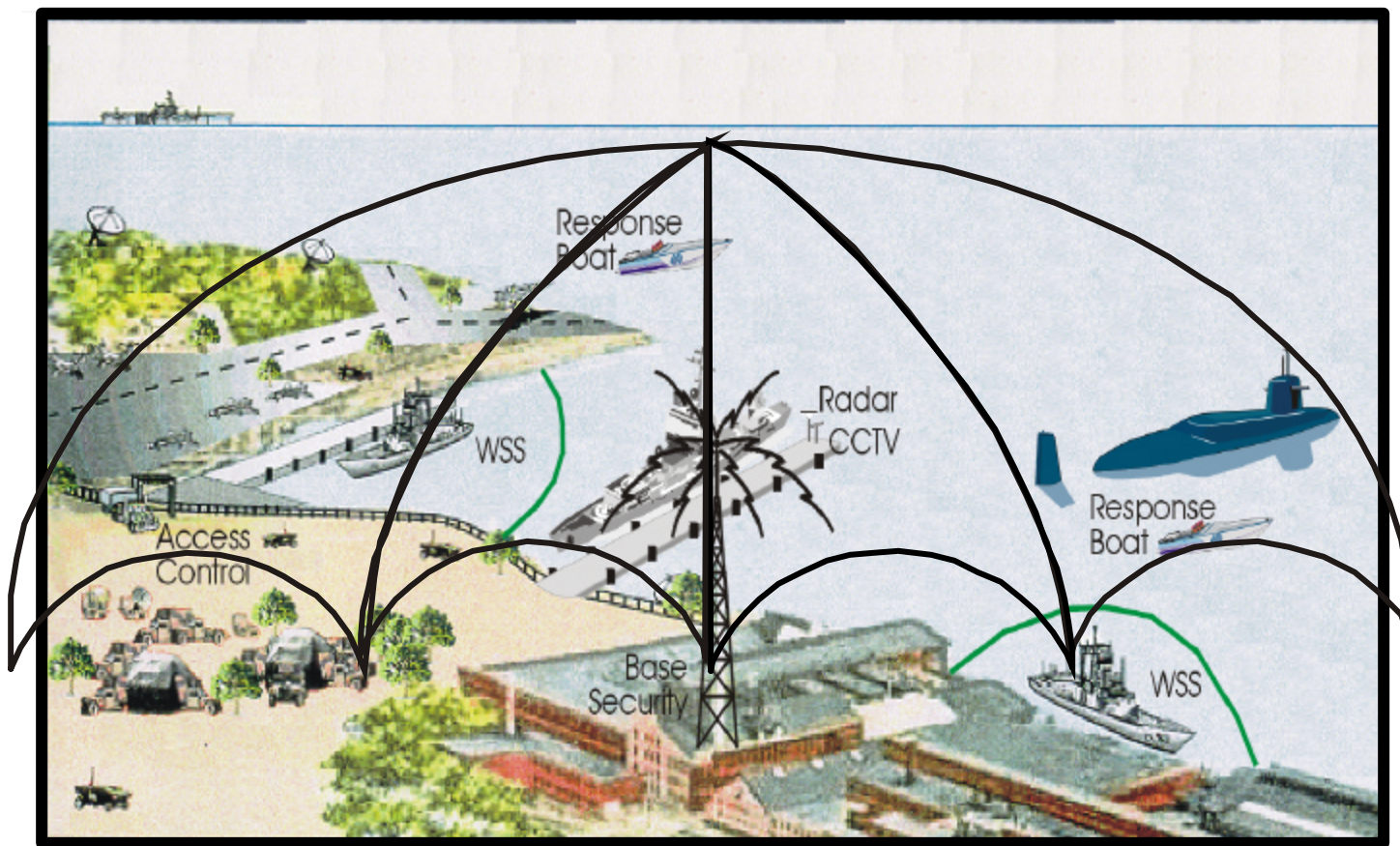
“Serves as the Navy program sponsor for antiterrorism, physical security ... Defines Physical Security Equipment (PSE) requirements. Oversees and coordinates the Navy PSE Research, Development, Test and Evaluation Program; ensures equipment and systems deployed / installed are supportable.”



FULLY INTEGRATED SECURITY SYSTEM VISION



Fully Integrated Security System Vision





Fully Integrated Security System Vision



- **Maximize capability while:**
 - **Minimizing new materiel solutions**
 - Use existing warfighting capabilities for Force Protection, to greatest possible extent
 - **Focusing on organic shipboard capability**
 - Provides the most operational flexibility
 - Leveraging existing shore infrastructure or providing a flyaway capability
 - **Optimizing manpower**
 - Automate where reasonable to reduce people/cost without accepting increased risk



WATERSIDE SECURITY SYSTEM



Waterside Security System



Radar

Thermal Imaging



Swimmer Detection System



Video

Command,
Control,
&
Display



- X-band radar
- Multi-beam sonar
- Thermal imaging & CCTV cameras
- SDS
- C2D



Swimmer Detection Sonars





Waterside Security System Site Location



FOREIGN PORTS

La Maddalena
Augusta Bay
Souda Bay
Gaeta
Rota

U.S PORTS

NS San Diego
NAS North Island
NSB Pt. Loma
NS Bremerton
NS Everett



Water Barriers

- **“Sausage” Barrier**
 - Floats on water to block small boats from passing barrier
- **Port Security Barrier**
 - Onsite construction
 - Has a net to stop small boats





Boat Barrier Sites



- **LaMaddalena**
- **Gaeta**
- **Souda Bay**
- **Augusta Bay**
- **Rota**



EXPLOSIVE DETECTION BASELINE ARCHITECTURE



Entry Point Screening - Personnel



- Requires combinations of systems for specific needs
- X-ray screening of personnel as well as their hand-carried bags and packages is first step





Entry Point Screening - Personnel



- **Handheld and desktop trace detectors detect minute amounts of explosive dust on clothing, packages, suitcases, etc**





Entry Point Screening - Personnel



- Walkthrough and handheld metal detectors compliment the X-ray and trace detectors





Entry Point Screening - Vehicles



- **Screening of vehicles – cars and trucks also requires combinations of screening systems**
- **Large vehicle X-ray trucks are effective and have been used at border crossings for the past several years**





Entry Point Screening - Vehicles



- Handheld and desktop trace detectors are excellent compliment to the large vehicle X-ray





Entry Point Screening - Vehicles



- Under vehicle video inspections can provide additional screening where X-ray trucks may have difficulty





Entry Point Screening - Vehicles



Low Cost Vehicle Search Kit



Mirror



Light Source



Fiberscope



Expray



Video Capture



Videoscope



Mail & Cargo Screening



- Both X-ray and trace detection techniques can be used for screening mail, packages, and cargo
- Larger X-ray systems may be required for pallets





KNOWLEDGE MANAGEMENT PORTAL



<https://dodpse.spawar.navy.mil>

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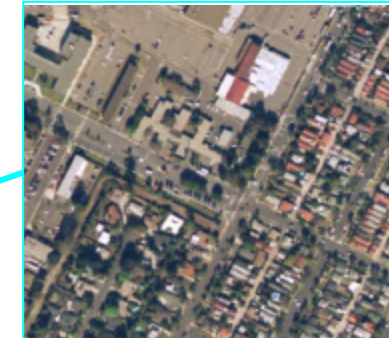
NAVAL AIR STATION NORTH ISLAND SECURITY IN DEPTH CONCEPT



NAS North Island Overall Plan



Waterside Security



Perimeter Security



Flightline Security



Perimeter Security



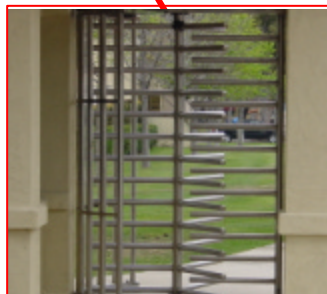
Sensored Wall



Sensored Fence



Cameras



Pedestrian Access



Vehicle Access



Proposed Smart Gates



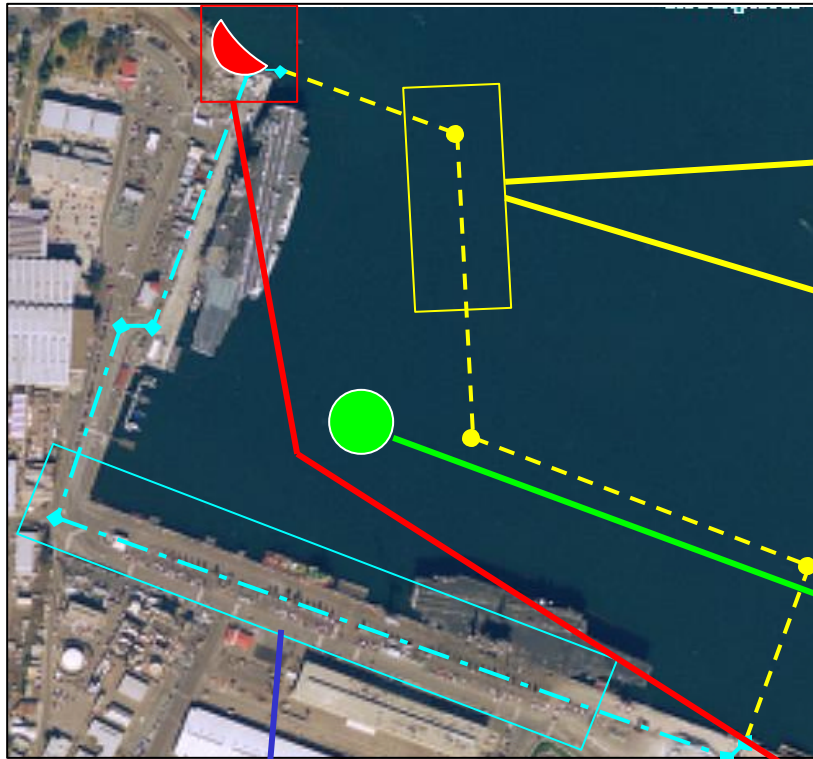
Pier Gate

Main Gate

Golf Course Gate

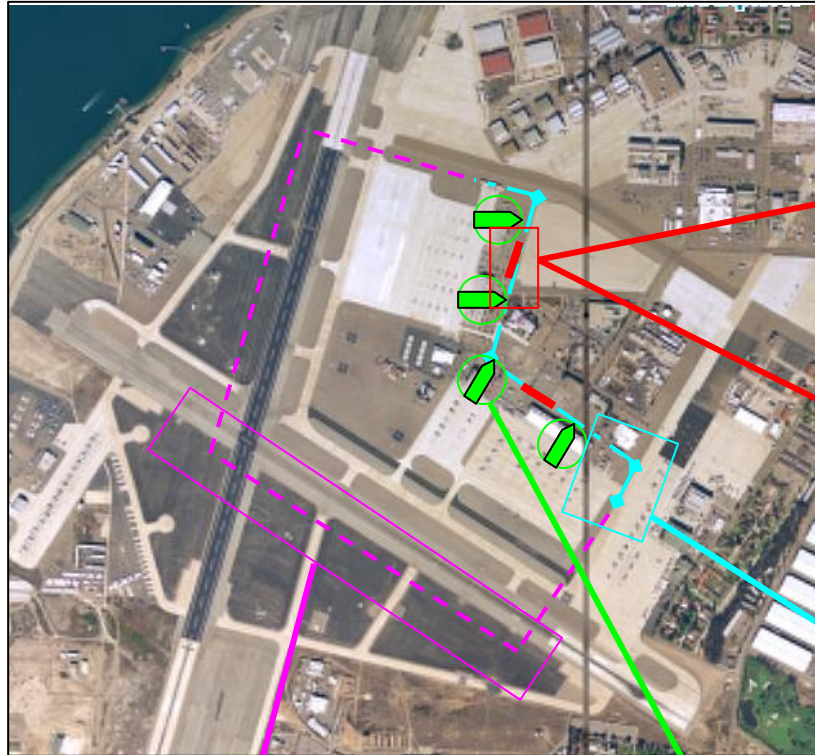


Waterside Security System





Flightline Security



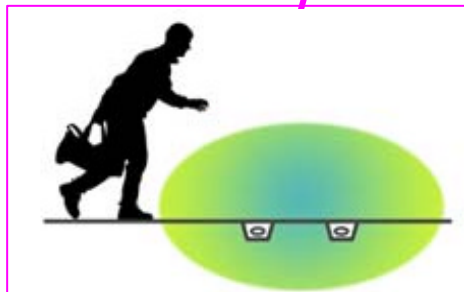
Pedestrian Access



Vehicle Access



Sensored Fence



Buried Line
Sensor



Cameras with
Video Motion
Detection



CHALLENGE TO INDUSTRY



Challenge to Industry



- **Reduce manpower**
- **Increase interoperability**
- **Build systems to be “sailor proof”**



QUESTIONS

